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Glycogen synthase kinase-3 (GSK-3) and β -catenin

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STELLINGEN

Stellingen behorende bij het proefschrift:

**Glycogen synthase kinase-3 (GSK-3) and β -catenin:
potential novel therapeutic targets for COPD**

1. Activatie van β -catenine signaaltransductie draagt in belangrijke mate bij aan extracellulaire matrixafzetting door luchtweg-gladde spiercellen en longfibroblasten. *Dit proefschrift*
2. Het differentiatieproces van fibroblasten naar myofibroblasten geïnduceerd door de groeifactor TGF- β is afhankelijk van zowel β -catenine als GSK-3 signaaltransductie. *Dit proefschrift*
3. De expressie van specifieke componenten van de WNT signaaltransductieroute, alsmede het vermogen van TGF- β om de WNT/ β -catenine signaaltransductieroute te activeren, is toegenomen in longfibroblasten van COPD patiënten. *Dit proefschrift*
4. Blootstelling van luchtweg-gladde spiercellen aan sigarettenrook(extract) leidt tot een GSK-3 afhankelijke ontstekingsreactie. *Dit proefschrift*
5. Inhibitie van GSK-3 is potentieel van therapeutische waarde voor de behandeling van de pulmonale en extrapulmonale pathologische verschijnselen van COPD. *Dit proefschrift*
6. The answer to COPD is blowing in the WNT.
7. There are two possible outcomes: if the result confirms the hypothesis, then you've made a measurement. If the result is contrary to the hypothesis, then you've made a discovery. *Enrico Fermi, Italian physicist*
8. Life is not measured by the number of breaths we take, but by the moments that take our breath away. *Anonymous*
9. Eén van de hedendaagse verschillen tussen een publieke ruimte en een laboratorium is dat je in de laatstgenoemde nog wel binnen mag roken.
10. The best way to inspire people to superior performance is to convince them by everything you do and by your everyday attitude that you are wholeheartedly supporting them. *Harold S. Geneen*

Hoeke Abele Baarsma
Groningen, 15 juni 2012
